

(12) 按照专利合作条约所公布的国际申请

(19) 世界知识产权组织  
国际局



(43) 国际公布日:

2005年3月24日(24.03.2005)

PCT

(10) 国际公布号:

WO 2005/027331 A1

(51) 国际分类号<sup>7</sup>: H02M 3/338, 7/5383

(21) 国际申请号: PCT/CN2004/001000

(22) 国际申请日: 2004年8月30日(30.08.2004)

(25) 申请语言: 中文

(26) 公布语言: 中文

(30) 优先权:  
03274572.9 2003年9月16日(16.09.2003) CN

(71) 申请人(对除美国以外的所有指定国): 广州金升阳科技有限公司(MORNSUN GUANGZHOU SCIENCE & TECHNOLOGY LTD.) [CN/CN]; 中国广东省广州市天河区车陂路黄洲工业区八栋八楼, Guangdong 510660 (CN)。

(72) 发明人: 及

(75) 发明人/申请人(仅对美国): 尹向阳(YIN, Xiangyang) [CN/CN]; 中国广东省广州市天河区车陂路黄洲工业区八栋八楼, Guangdong 510660 (CN)。

(74) 代理人: 广州知友专利代理有限公司(GUANGZHOU ZHIYOU PATENT AGENCY CO., LTD); 中国广东省广州市先烈中路100号大院省高中心大楼(60号楼)七楼, Guangdong 510070 (CN)。

(81) 指定国(除另有指明, 要求每一种可提供的国家保护): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BC, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

(84) 指定国(除另有指明, 要求每一种可提供的地区保护): ARIPO(BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), 欧亚专利(AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), 欧洲专利(AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI(BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

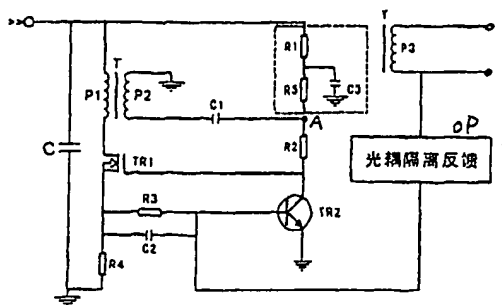
本国际公布:

— 包括国际检索报告。

所引用双字母代码和其它缩写符号, 请参考刊登在每期 PCT 公报期刊起始的“代码及缩写符号简要说明”。

(54) Title: AN ISOLATING TYPE SELF-OSCILLATING FLYBACK CONVERTER

(54) 发明名称: 隔离式自振荡反激变换器



1 OPTICAL COUPLED ISOLATING FEEDBACK

(57) Abstract: An isolating type self-oscillating flyback converter is disclosed, which includes a coupled transformer, a FET, a transistor and an optical-electro coupled isolating feedback unit, wherein the input terminal of the circuit is connected to the source of the FET through a primary winding of the coupled transformer, the input terminal of the circuit is connected to the collector of the transistor through a resistor R1 and a resistor R2, the source of the FET is connected to the collector of the transistor, the drain of the FET is connected to the ground through a resistor and connected to the base of the transistor through the parallel connection of a resistor and a capacitor, the base of the transistor is connected to the output terminal of a secondary output winding of the coupled transformer through the optical-electro coupled isolating feedback unit; the series connection joint between the said resistor R1 and the resistor R2 is connected to the ground through a speedup capacitor and a secondary winding of the coupled transformer; a circuit for achieving the soft start is connected between the said input terminal of the circuit and the series connection joint. Thus the current of the invention is small and the converter can keep normal working when the input voltage is high.